

AMENDMENTS TO THE CLAIMS

Please cancel claims 5 and 11, amend claims 1-3, 6-10, and 12-14, and add claims 15-22

as follows:

1. (Currently Amended) A method for quantifying asymmetry of body positions during a movement, comprising:
~~synchronizing one or more sets of data, wherein each set of data comprises two subsets of data, wherein one subset of data comprises body position representations on a left side of a body and one subset of data comprises body position representations on a right side of the body, and wherein each subset of data comprises body position representations spanning the movement; and calculating a value based on the one or more synchronized sets of data.~~
~~determining a first set of data that comprises positions of a first limb as the first limb performs the movement;~~
~~determining a second set of data that comprises positions of a second limb as the second limb performs a similar movement;~~
~~generating a shape based on the first set of data and the second set of data; and determining a value of a characteristic of the generated shape.~~
2. (Currently Amended) The method of claim 1 wherein ~~the body positions are angles of joints a position of the first limb includes an angle of a joint of the first limb.~~
3. (Currently Amended) The method of claim [[1]] 2 wherein ~~the body positions are angles of corresponding joints a position of the second limb includes an angle of a corresponding joint of the second limb.~~
4. (Original) The method of claim 1 wherein the movement comprises one or more cycles.
5. (Cancelled)
6. (Currently Amended) The method of claim [[5]] 1 wherein ~~the figure is a cyclogram shape comprises an angle-angle diagram.~~

7. (Currently Amended) The method of claim 6 wherein the calculated value is an area of the cyclogram the characteristic of the generated shape comprises an area of the generated shape.
8. (Currently Amended) The method of claim 6 wherein the calculated value is an orientation of the cyclogram the characteristic of the generated shape comprises an orientation of the generated shape.
9. (Currently Amended) The method of claim 6 wherein the calculated value is a minimum moment magnitude of the cyclogram the characteristic of the generated shape comprises a minimum moment magnitude of the generated shape.
10. (Currently Amended) The method of claim 1 further comprising comparing the calculated value to a corresponding calculated value of a perfectly symmetrical movement or a baseline movement comparing the determined value to a value of the characteristic of a shape representing a baseline movement.
11. (Cancelled)
12. (Currently Amended) A method for quantifying asymmetry of joint angles during a cycle of movement, comprising:
~~obtaining a set of data entries, wherein a data entry consists of one or more pairs of angle measurements, a pair comprising one angle measurement for a left joint and one angle measurement for a corresponding right joint at a same point in time, and wherein the set comprises data entries spanning the cycle of movement;~~
~~synchronizing the set of data entries;~~
~~determining a first set of data that comprises angles of a joint of a first limb as the first limb performs the movement;~~
~~determining a second set of data that comprises angles of a joint of a second limb as the second limb performs a similar movement;~~
~~generating a cyclogram based on the first set of data and the second set of data;~~
~~calculating determining a value of a characteristic of the generated cyclogram; and~~

~~comparing the characteristic to a corresponding characteristic of a cyclogram representing a perfectly symmetrical gait.~~

~~comparing the determined value to a value of the characteristic of a cyclogram representing a baseline movement.~~

13. (Currently Amended) A system for quantifying asymmetry of body positions during a movement, comprising:

~~a synchronizing module that synchronizes one or more sets of data, wherein each set of data comprises two subsets of data, wherein one subset of data comprises body position representations on a left side of a body and one subset of data comprises body position representations on a right side of the body, and wherein each subset of data comprises body position representations spanning the movement; and~~

~~a calculating module that calculates a value based on the one or more synchronized sets of data.~~

~~a first determination module configured to determine a first set of data that comprises positions of a first limb as the first limb performs the movement;~~

~~a second determination module configured to determine a second set of data that comprises positions of a second limb as the second limb performs a similar movement;~~

~~a generation module configured to generate a shape based on the first set of data and the second set of data; and~~

~~a third determination module configured to determine a value of a characteristic of the generated shape.~~

14. (Currently Amended) A computer program product for quantifying asymmetry of body positions during a movement, including a computer readable medium, which comprises instructions to perform the following:

~~synchronizing one or more sets of data, wherein each set of data comprises two subsets of data, wherein one subset of data comprises body position representations on a left side of a body and one subset of data comprises body~~

~~position representations on a right side of the body, and wherein each subset of data comprises body position representations spanning the movement; and calculating a value based on the one or more synchronized sets of data.~~
~~determining a first set of data that comprises positions of a first limb as the first limb performs the movement;~~
~~determining a second set of data that comprises positions of a second limb as the second limb performs a similar movement;~~
~~generating a shape based on the first set of data and the second set of data; and determining a value of a characteristic of the generated shape.~~

15. (New) The method of claim 1 wherein a position of the first limb includes a location of a portion of the first limb.
16. (New) The method of claim 1 wherein a position of the first limb includes a location of a joint of the first limb.
17. (New) The method of claim 1 wherein the first limb is part of one body and wherein the second limb is part of the same body.
18. (New) The method of claim 1 wherein the first limb is part of one body and wherein the second limb is part of a different body.
19. (New) The method of claim 1 wherein the first limb comprises a leg.
20. (New) The method of claim 1 wherein the first limb comprises an arm.
21. (New) The method of claim 10 wherein the baseline movement comprises a perfectly symmetrical movement.
22. (New) The method of claim 12 wherein the movement comprises one or more cycles.